LISTING OF CLAIMS

1(currently amended). A photovoltaic device comprising:

an anode;

a cathode; and

at least one photoactive layer wherein the at least one photoactive layer comprises a composition comprising at least one polymer having a glass transition temperature of at least 125 °C and at least one photoactive material, wherein: (a) the photoactive material comprises a light harvesting organic material, (b) the polymer and the photoactive material are in a single phase, (c) the photoactive material comprises at least 20% by weight of the composition, ~~and~~ (d) the at least one photoactive layer is in electrical communication with the anode and the cathode, ~~wherein~~ (e) the anode and the cathode are configured to conduct an electric charge from the at least one photoactive layer that is produced by the at least one photoactive layer absorbing light , (f) the anode is transparent and the photovoltaic device further comprises a transparent substrate on a side of the anode facing away from the at least one photoactive layer, and (g) the polymer comprises poly(arylene ether) comprising repeating units of a structure:

$$-(-O-Ar^1-O-Ar^2-)_m-(-O-Ar^3-O-Ar^4-)_n-$$

wherein m is 0 to 1, n is 1-m and Ar^1, Ar^2, Ar^3 and Ar^4 are independently divalent arylene radicals.

2(canceled).

3(canceled).

4(currently amended).The photovoltaic device of claim [[3]] 1, wherein the polymer of the composition is amorphous and not conductive.

5(currently amended).The photovoltaic device of claim [[3]] 1, wherein the glass transition temperature of the polymer of the composition is at least 150 °C.

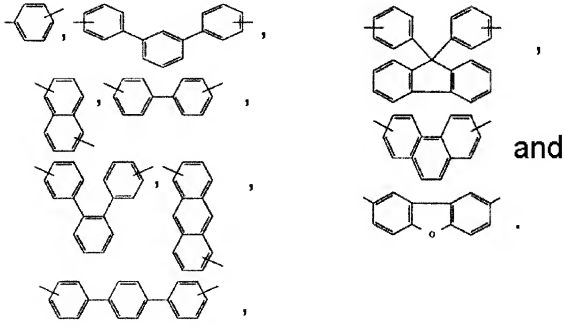
6(currently amended).The photovoltaic device of claim [[3]] 1, wherein the polymer of the composition comprises at least one member selected from the group

consisting of polycarbonate, polyarylate, polyimide, poly(amide-imide), poly(aryl ether), and polyestercarbonate.

7(currently amended).The photovoltaic device of claim [[3]] 1, wherein the polymer of the composition comprises at least one of poly(2,6-dimethyl-1,4-phenylene oxide) or a product of condensing 4,4'-dibromobiphenyl with 9,9-bis(4-hydroxyphenyl)fluorene.

8(canceled).

9(currently amended).The photovoltaic device of claim [[8]] 1, wherein Ar^1, Ar^2, Ar^3 and Ar^4 are divalent arylene radicals independently selected from the group consisting of:



provided that Ar^1, Ar^2, Ar^3 and Ar^4 cannot be isomeric equivalents other than diradical 9,9-diphenylfluorene.

10(currently amended). The photovoltaic device of claim [[8]] 1, wherein m is 0.5 and n is 0.5.

11(currently amended). The photovoltaic device of claim [[3]] 1, wherein the photoactive material comprises at least 50 percent by weight of the composition of the photoactive layer

12(previously presented). The photovoltaic device of claim 27, wherein the photoactive material of the composition comprises at least one hole transporting organic material selected from the group consisting of 4-(dicyanomethylene)-2-methyl-6-(4-dimethylaminostyryl)-4H-pyran (DCM), tetrathiofulvalene (TTF), α-quaterthiophene, α-hexathiophene, thiophene derivatives, oligophenylenevinylenes, oligofluorenes, phthalocyanines, porphyrins, aryl amine derivative, 4,4',4"-Tris(N-(2-naphthyl)-N-phenyl-amino)-triphenylamine, N,N'-bis(4-methylphenyl)-N,N'-bis(phenyl)-benzidine, and N,N'-di(naphthalene-2-yl)-N,N'-diphenylbenzidine.

13(previously presented). The photovoltaic device of claim 27, wherein the photoactive material of the composition comprises at least one electron transporting organic material selected from the group consisting of 2,4,7-trinitrofluorenone, ortho-benzoquinone, tetracyanoquindomethane (TCNQ), tetracyanoethylene, perylene derivatives, N,N'-bis(2,5-di-tert-butylphenyl)-3,4,9,10-perylenedicarboximide, perylene-3,4,9,10-tetracarboxylicdianhydride (PTCDA), N,N'-bis(1-ethylpropyl)-3,4,9,10-perylene bis(tetracarboxyl diimide) (EP-PTC), and N,N'-ditridecyl-3,4,19,10-perylenetetracarboxylicdiimide.

14(currently amended). The photovoltaic device of claim [[3]] 1, wherein the light harvesting organic material comprises at least one member selected from the group consisting of Rhodamine dyes, pyrromethene dyes, perylenes, Coumarin dyes, and 4-(dicyanomethylene)-2-methyl-6-(4-dimethylaminostyryl)-4H-pyran (DCM).

15(currently amended). The photovoltaic device of claim [[3]] 1, wherein the photoactive layer comprises two layers.

16(original). The photovoltaic device of claim 15, wherein the first photoactive layer is in contact with the cathode and the second photoactive layer is in contact with the anode.

17(original). The photovoltaic device of claim 15, wherein the at least one photoactive layer further comprises a third photoactive layer in communication with at least one of the first photoactive layer and the second photoactive layer, the third photoactive layer containing the light harvesting material.

18(original). The photovoltaic device of claim 17, wherein the third photoactive layer is placed between the first photoactive layer and the second photoactive layer.

19(original). The photovoltaic device of claim 17, wherein the first photoactive layer is in contact with the cathode and the second photoactive layer is in contact with the anode.

20(previously presented). The photovoltaic device of claim 14 wherein the light harvesting organic material comprises 4-(dicyanomethylene)-2-methyl-6-(4-dimethylaminostyryl)-4H-pyran (DCM).

21(previously presented). The photovoltaic device of claim 14 wherein the light harvesting organic material comprises Courmarin dyes.

22(currently amended). The photovoltaic device of claim [[2]] 1 wherein the light harvesting organic material is coated on an outer side of the transparent substrate and/or mixed with the transparent substrate.

23(original). A method for manufacturing the photovoltaic device of claim 1, said method comprising:

providing an anode;

providing a cathode; and

providing at least one photoactive layer between the anode and the cathode, wherein the at least one photoactive layer is in electrical communication with the anode and the cathode and wherein the anode and the cathode are configured to conduct an electric charge from the at least one photoactive layer produced by the at least one photoactive layer absorbing light.

24(original). The method of claim 23, wherein the at least one photoactive layer is manufactured by a fabrication technique selected from the group consisting of spin coating, screen printing, ink jet printing and roll-to-roll printing.

25(original). The method of claim 23, wherein the anode is provided on a first side of the at least one photoactive layer, the cathode is provided on a second side of the at least one photoactive layer, and a transparent substrate is provided on a side of the anode facing away from the at least one photoactive layer.

26(currently amended). The photovoltaic device of Claim 1 wherein the polymer is miscible with the photo active material and increases the glass transition temperature of the photo active material.

27(currently amended). A photovoltaic device comprising:

an anode;

a cathode; and

at least one photoactive layer, wherein the at least one photoactive layer comprises a composition comprising at least one amorphous polymer having a glass transition temperature of at least 200 °C and at least one photoactive material, wherein: (a) the photoactive material comprises ~~at least one member selected from the group consisting of a hole transporting organic material, an electron transporting organic material, and~~ a light harvesting organic material, (b) the polymer and the photoactive material are miscible and form a single phase, (c) the amount of photoactive material is sufficient to decrease the glass transition temperature of the polymer, (d) the amount of polymer is sufficient to reduce crystallization of the photoactive material and increase the dimensional stability of the photoactive layer, ~~and~~ (e) the at least one photoactive layer is in electrical communication with the anode and the cathode, and (f) the polymer comprises poly(arylene ether) comprising repeating units of a structure:

$$\text{—(—O—Ar}^1\text{—O—Ar}^2\text{—)}_m\text{—(—O—Ar}^3\text{—O—Ar}^4\text{—)}_n\text{—}$$

wherein m is 0 to 1, n is 1-m and Ar^1, Ar^2, Ar^3 and Ar^4 are independently divalent arylene radicals.

28(canceled).